

AMENDMENT

Please amend the above-captioned application as follows:

In the Claims:

Please cancel claims 7, 8 and 9, without prejudice.

Please amend the claims as follows:

01  
SUB  
E2

16. (Amended) A method for detecting a degree of hybridization between a probe and a sample comprising a biopolymer, the method comprising

- (a) providing a substrate on which each of a plurality of types of probes is separately immobilized on each different and separate position, wherein the probes are labeled with a first detectable label;
- (b) providing a sample comprising a biopolymer, wherein the biopolymer is labeled with a second detectable label;
- (c) contacting the sample with the probe;
- (d) detecting an amount of the probe at each position of the substrate by detecting the first detectable label;
- (e) detecting an amount of the sample biopolymer bound to the probe at each position of the substrate by detecting the second detectable label; and
- (f) producing a value representing the degree of hybridization between a probe and a sample biopolymer by normalizing the difference between the amount of the probe and the amount of the sample biopolymer hybridized to the probe with the amount of the probe.

2  
SUB  
E3

24. (Amended) A method for detecting a degree of hybridization between an oligonucleotide probe immobilized onto an array and a sample nucleic acid, the method comprising

- (a) providing a substrate on which each of a plurality of types of oligonucleotide probes is separately immobilized on each different and separate position to form an array, wherein the oligonucleotide probes are labeled with a first detectable label;
- (b) providing a sample comprising a nucleic acid, wherein the nucleic acid is labeled with a second detectable label;
- (c) contacting the sample with the probe;

(d) detecting an amount of the probe at each position of the substrate by detecting the first detectable label;

(e) detecting an amount of the sample nucleic acid hybridized to the probe at each position of the substrate by detecting the second detectable label; and

(f) producing a value representing the degree of hybridization between a probe and a sample by normalizing the difference between the amount of the probe and the amount of the sample nucleic acid hybridized to the probe with the amount of the probe.

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